	2	What is claimed is:
	3	
	4	Claim 1. A biopolymer marker selected from the group
	5	consisting of sequence ID VDVIPVNLPGEHGQR,
	6	(R) FLATTPNSLLVSWQPPR(A), HQLYIDETVNSNIPTNLR,
	7	RVDVIPVNLPGEHGQRL, SSPVVIDASTAIDAPSNLR, IHLISTQSAIPYALR or
	8	at least one analyte thereof useful in indicating at least
	9	one particular disease state.
1	10	
A South A	11	Claim 2. The biopolymer marker of claim 1 wherein
A standards	12	said disease state is predictive of Alzheimers disease.
Spirit Steam	13	
	14	Claim 3. A method for evidencing and categorizing at
Si	15	least one disease state comprising:
then then	16 .	obtaining a sample from a patient;
He Knik	17	conducting mass spectrometric analysis on said
	18	<pre>sample;</pre>
	19	evidencing and categorizing at least one biopolymer
	20	marker sequence or analyte thereof isolated from said
	21	sample; and,
	22	comparing said at least one isolated biopolymer
	23	marker sequence or analyte thereof to the biopolymer

CLAIMS

marker sequence as set forth in claim 1;

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1	wherein correlation of said isolated biopolymer
2	marker and said biopolymer marker sequence as set forth in
3	claim 1 evidences and categorizes said at least one
4	disease state.
5	
6	Claim 4. The method of claim 3, wherein said step
7	of evidencing and categorizing is particularly directed to
8	biopolymer markers or analytes thereof linked to at least
9	one risk of disease development of said patient.
10	
11	Claim 5. The method of claim 3, wherein said step
12	of evidencing and categorizing is particularly directed to
13	biopolymer markers or analytes thereof related to the
14	existence of a particular disease state.
15	
16	Claim 6. The method of claim 3, wherein the sample
17	is an unfractionated body fluid or a tissue sample.
18	
19	
20	Claim 7. The method of claim 3, wherein said sample
21	is at least one of the group consisting of blood, blood
22	products, urine, saliva, cerebrospinal fluid, and lymph.
23	
24	Claim 8. The method of claim 3, wherein said mass

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spectrometric analysis is selected from the group
 1
      consisting of Surface Enhanced Laser Desorption Ionization
 2
      (SELDI) mass spectrometry (MS), Maldi Qq TOF, MS/MS,
 3
      TOF-TOF, and ESI-Q-TOF or an ION-TRAP.
 4
 5
 6
           Claim 9.
                      The method of claim 3, wherein said
      patient is a human.
 7
 8
 9
                       A diagnostic assay kit for determining
      the presence of the biopolymer marker or analyte thereof
10
11
      of claim 1 comprising:
12
           at least one biochemical material which is capable of
13
      specifically binding with a biomolecule which includes at
14
      least said biopolymer marker or analyte thereof, and
           means for determining binding between said
15
16
      biochemical material and said biomolecule;
17
           whereby at least one analysis to determine a presence
18
      of a marker, analyte thereof, or a biochemical material
      specific thereto, is carried out on a sample.
19
20
21
           Claim 11.
                      The diagnostic assay kit of claim 10,
      wherein said biochemical material or biomolecule is
22
23
      immobilized on a solid support.
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1 The diagnostic assay kit of claim 10Claim 12. 2 including: at least one labeled biochemical material. 3 The diagnostic assay kit of claim 10, Claim 13. wherein said biochemical material is an antibody. The diagnostic assay kit of claim 12, Claim 14. wherein said labeled biochemical material is an antibody. The diagnostic assay kit of claim 10, Claim 15. wherein the sample is an unfractionated body fluid or a tissue sample. The diagnostic assay kit of claim 10, Claim 16. wherein said sample is at least one of the group consisting of blood, blood products, urine, saliva, cerebrospinal fluid, and lymph. The diagnostic assay kit of claim 10, Claim 17. wherein said biochemical material is at least one 21 monoclonal antibody specific therefore. 22 23 24 Claim 18. A kit for diagnosing, determining risk-

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1	assessment, and identifying therapeutic avenues related to
2	a disease state comprising:
3	at least one biochemical material which is capable or
4	specifically binding with a biomolecule which includes at
5	least one biopolymer marker selected from the group
6	consisting of sequence ID VDVIPVNLPGEHGQR,
7	(R) FLATTPNSLLVSWQPPR(A), HQLYIDETVNSNIPTNLR,
8	RVDVIPVNLPGEHGQRL, SSPVVIDASTAIDAPSNLR, IHLISTQSAIPYALR or
9	analyte thereof related to said disease state; and
10	means for determining binding between said
11	biochemical material and said biomolecule;
12	whereby at least one analysis to determine a presence
13	of a marker, analyte thereof, or a biochemical material
14	specific thereto, is carried out on a sample.
15	
16	Claim 19. The kit of claim 18, wherein said
17	biochemical material or biomolecule is immobilized on a
18	solid support.
19	
20	Claim 20. The kit of claim 18 including:
21	at least one labeled biochemical material.
22	
23	Claim 21. The kit of claim 18, wherein said
24	biochemical material is an antibody.

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1	Claim 22. The kit of claim 20, wherein said labeled
2	biochemical material is an antibody.
3	
4	Claim 23. The kit of claim 18, wherein the sample is
5	an unfractionated body fluid or a tissue sample.
6	
7	Claim 24. The kit of claim 18, wherein said sample
8	is at least one of the group consisting of blood, blood
9	products, urine, saliva, cerebrospinal fluid, and lymph.
10	
11	Claim 25. The kit of claim 18, wherein said
12	biochemical material is at least one monoclonal antibody
13	specific therefore.
14	
15	Claim 26. The kit of claim 18, wherein said
16	diagnosing, determining risk assessment, and identifying
17	therapeutic avenues is carried out on a single sample.
18	
19	Claim 27. The kit of claim 18, wherein said
20	diagnosing, determining risk assessment, and identifying
21	therapeutic avenues is carried out on multiple samples
22	such that at least one analysis is carried out on a first
23	sample and at least another analysis is carried out on a
24	second sample

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             Claim 29. Polyclonal antibodies produced against a
        marker sequence ID selected from the group consisting of
   5
        sequence VDVIPVNLPGEHGQR, (R) FLATTPNSLLVSWQPPR(A),
   6
        HQLYIDETVNSNIPTNLR, RVDVIPVNLPGEHGQRL,
   7
   8
        SSPVVIDASTAIDAPSNLR, IHLISTQSAIPYALR or at least one
   9
        analyte thereof in at least one animal host.
  10
<u>-</u>11
             Claim 30. An antibody that specifically binds a
12
13
        biopolymer including a marker selected from the group
        consisting of sequence ID VDVIPVNLPGEHGQR,
  14
        (R) FLATTPNSLLVSWQPPR(A), HQLYIDETVNSNIPTNLR,
        RVDVIPVNLPGEHGQRL, SSPVVIDASTAIDAPSNLR, IHLISTQSAIPYALR
  15
  16
        or at least one analyte thereof.
  17
  18
             Claim 31.
                        The antibody of claim 30 that is a
  19
        monoclonal antibody.
  20
  21
             Claim 32.
                        The antibody of claim 30 that is a
  22
        polyclonal antibody.
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Claim 33. A process for identifying therapeutic

Claim 28. The kit of claim 27, wherein said first

and second samples are obtained at different time periods.

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1 avenues related to a disease state comprising: 2 conducting an analysis as provided by the kit of 3 claim 18; and 4 interacting with a biopolymer selected from the group consisting of sequence ID VDVIPVNLPGEHGQR, 5 (R) FLATTPNSLLVSWQPPR(A), HQLYIDETVNSNIPTNLR, 6 RVDVIPVNLPGEHGQRL, SSPVVIDASTAIDAPSNLR, IHLISTQSAIPYALR 7 8 or at least one analyte thereof; 9 whereby therapeutic avenues are developed. 10 Claim 34. The process for identifying therapeutic 12 avenues related to a disease state in accordance with claim 33, wherein said therapeutic avenues regulate the 13 presence or absence of the biopolymer selected from the group consisting of sequence ID VDVIPVNLPGEHGQR, (R) FLATTPNSLLVSWQPPR(A), HQLYIDETVNSNIPTNLR, RVDVIPVNLPGEHGQRL, SSPVVIDASTAIDAPSNLR, IHLISTQSAIPYALR or 18 at least one analyte thereof. 19 20 Claim 35. The process for identifying therapeutic 21 avenues related to a disease state in accordance with 22 claim 33, wherein said therapeutic avenues developed include at least one avenue selected from a group 23 24 consisting of 1)utilization and recognition of said

23

- 1 biopolymer markers, variants or moieties thereof as direct 2 therapeutic modalities, either alone or in conjunction 3 with an effective amount of a pharmaceutically effective carrier; 2) validation of therapeutic modalities or disease 5 preventative agents as a function of biopolymer marker 6 presence or concentration; 3) treatment or prevention of a disease state by formation of disease intervention 7 modalities; 4) use of biopolymer markers or moieties 8 9 thereof as a means of elucidating therapeutically viable 10 agents, 5) instigation of a therapeutic immunological 11 response; and 6) synthesis of molecular structures related to said biopolymer markers, moieties or variants thereof 12 which are constructed and arranged to therapeutically 13 14 intervene in said disease state. 15 Claim 36. The process for identifying therapeutic
- avenues related to a disease state in accordance with

 claim 35, wherein said treatment or prevention of a

 disease state by formation of disease intervention

 modalities is the formation of biopolymer/ligand

 conjugates which intervene at receptor sites to prevent,

 delay or reverse a disease process.

Claim 37. The process for identifying therapeutic

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1 avenues related to a disease state in accordance with 2 claim 35, wherein said means of elucidating 3 therapeutically viable agents includes use of a bacteriophage peptide display library or a bacteriophage 5 antibody library. 6 7 Claim 38. A process for regulating a disease state 8 by controlling the presence or absence of a biopolymer 9 selected from the group consisting of sequence ID 10 VDVIPVNLPGEHGQR, (R) FLATTPNSLLVSWQPPR(A), 11 HQLYIDETVNSNIPTNLR, RVDVIPVNLPGEHGQRL, 12 SSPVVIDASTAIDAPSNLR, IHLISTQSAIPYALR or at least one 13 analyte thereof. 14